

Claims

[c1] What is claimed is:

1. A holder for semiconductor as well as liquid-crystal manufacturing devices, the holder comprising:
a ceramic susceptor having a retaining side for retaining an object to be processed;
a resistive heating element incorporated in said susceptor; and
a metal plate arranged on said susceptor opposite said retaining side.

[c2] 2. A holder as set forth in claim 1, wherein said metal plate and said ceramic susceptor are fastened by bonding, screws, snug-fitting, or vacuum adhesion.

[c3] 3. A holder as set forth in claim 1, wherein the resistive heating element is present beyond the middle in the thickness direction of said susceptor, toward the side opposite said retaining side.

[c4] 4. A holder as set forth in claim 1, wherein the ceramic of said ceramic susceptor is any one selected from Al_2O_3 , SiO_2 , B_4C and BN.

- [c5] 5. A holder as set forth in claim 1, wherein the ceramic of said ceramic susceptor has a thermal conductivity of 100 W/mK or more.
- [c6] 6. A holder as set forth in claim 5, wherein the ceramic of said ceramic susceptor is any one selected from AlN, SiC and Si_3N_4 .
- [c7] 7. A holder as set forth in claim 1, wherein the metal of said metal plate has a thermal conductivity of 100 W/mK or more.
- [c8] 8. A holder as set forth in claim 7, wherein said metal is any one selected from Al–SiC, Cu–W and Cu–Mo.
- [c9] 9. A holder as set forth in claim 1, wherein the thickness of said metal plate is thicker than the thickness of said ceramic susceptor.
- [c10] 10. A holder as set forth in claim 1, wherein the diameter of said ceramic susceptor is 200 mm or more.
- [c11] 11. A holder as set forth in claim 1, wherein the porosity of the ceramic of said ceramic susceptor is 0.03% or less.
- [c12] 12. A holder as set forth in claim 1, wherein said retaining side has a warpage of 500 μm or less.
- [c13] 13. A semiconductor manufacturing device in which the

holder of claim 1 is installed.

- [c14] 14. A liquid-crystal manufacturing device in which the holder of claim 1 is installed.